

ABSTRACT

In controlling transmission power of a local station by using a transmission power control bit transmitted from a distant station (receiving station) to the local station (transmitting station), a communication state is detected by using at least one of a transmitting station transmission power change detector (19), a control state detector (20), reception power change detector (21), a transmission power control bit change detector (22), and a receiving station transmission power change detector (23), based on an output from a baseband signal processor (17). The transmission power control range corresponding to the transmission power control bit is changed based on the detection results of the detectors by a transmission power control bit controller (18). A variable power amplifier controller (16) controls a variable amplifier (27a) based on the transmission power control bit and the transmission power control range and variably controls the transmission power via an antenna (11).